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## NOTICE OF ALLOWANCE AND FEE(S) DUE

38779 7590 06/01/2009

SENNIGER POWERS LLP (MSFT)  
100 NORTH BROADWAY  
17TH FLOOR  
ST. LOUIS, MO 63102

EXAMINER

SALOMON, PHENUEL S

ART UNIT

PAPER NUMBER

2179

DATE MAILED: 06/01/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/817,040

04/02/2004

Jordan L.K. Schwartz

MS#304627.01 (5458)

2243

TITLE OF INVENTION: METHOD FOR CONTROLLING FILENAME DISPLAY FOR IMAGE AND VIDEO FILE TYPES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	09/01/2009

**THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.**

**THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.**

### HOW TO REPLY TO THIS NOTICE:

#### I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

**IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.**

# **PART B - FEE(S) TRANSMITTAL**

**Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE  
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**INSTRUCTIONS:** This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

38779 7590 06/01/2009

**SENNIGER POWERS LLP (MSFT)**  
100 NORTH BROADWAY  
17TH FLOOR  
ST. LOUIS, MO 63102

## **Certificate of Mailing or Transmission**

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/817,040 04/02/2004 Jordan L.K. Schwartz MS#304627.01 (5458) 2243

TITLE OF INVENTION: METHOD FOR CONTROLLING FILENAME DISPLAY FOR IMAGE AND VIDEO FILE TYPES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	09/01/2009

EXAMINER	ART UNIT	CLASS-SUBCLASS
SALOMON, PHENUEL S	2179	345-838000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, 1 \_\_\_\_\_
- (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 \_\_\_\_\_
- 3 \_\_\_\_\_

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☐ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies \_\_\_\_\_

4b. Payment of Fee(s); (Please first reapply any previously paid issue fee shown above)

- ☐ A check is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number \_\_\_\_\_ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature \_\_\_\_\_

Date \_\_\_\_\_

Typed or printed name \_\_\_\_\_

Registration No. \_\_\_\_\_

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/817,040	04/02/2004	Jordan L.K. Schwartz	MS#304627.01 (5458)	2243
38779	7590	06/01/2009	EXAMINER	
SENNIGER POWERS LLP (MSFT) 100 NORTH BROADWAY 17TH FLOOR ST. LOUIS, MO 63102			SALOMON, PHENUEL S	
			ART UNIT	PAPER NUMBER
			2179	
DATE MAILED: 06/01/2009				

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 619 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 619 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/817,040	SCHWARTZ ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	PHENUEL S. SALOMON	2179	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 3/11/09.
2. ☒ The allowed claim(s) is/are 1,3,11,12,13,14,20,21, and 22.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
  - \* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

**Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |  |
|---|--|
| <ol style="list-style-type: none"> <li>1. <input type="checkbox"/> Notice of References Cited (PTO-892)</li> <li>2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),<br/>Paper No./Mail Date _____</li> <li>4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br/>of Biological Material</li> </ol> | <ol style="list-style-type: none"> <li>5. <input type="checkbox"/> Notice of Informal Patent Application</li> <li>6. <input type="checkbox"/> Interview Summary (PTO-413),<br/>Paper No./Mail Date _____.</li> <li>7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment</li> <li>8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance</li> <li>9. <input checked="" type="checkbox"/> Other <u>PTO-1449</u>.</li> </ol> |
|---|--|

### EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Frank R. Agovino on 5/20/2009.

### Claims

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

#### Listing of Claims:

Claim 1 (currently amended): A method comprising:

sensing the presence of an indicator in a vicinity of an icon having associated thumbnail data representative of content of an associated object, wherein said icon and a plurality of additional icons are located within a viewable interface, each of the additional icons having associated thumbnail data representative of content of an associated object;

rendering a superimposed view of at least a portion of the thumbnail data, the superimposed view rendered in the vicinity of the icon;

in response to said sensing, identifying a predetermined number of the plurality of additional icons based on the locations within the window of the plurality of additional icons relative to said icon, wherein the predetermined number of icons is greater than one icon and less than the total number of the plurality of additional icons located within the viewable interface; and

in response to said identifying, pre-caching thumbnail data only for the identified additional icons.

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Claim 2 (canceled).

Claim 3 (original): The method according to claim 1, wherein pre-caching the thumbnail data includes storing the thumbnail data in volatile memory.

Claims 4-8 (canceled).

Claim 9 (canceled)

Claim 10 (canceled)

Claim 11 (previously presented): The method according to claim 1, wherein the viewable interface is a window and the superimposed view rendered is rendered within the window.

Claim 12 (currently amended): A method for displaying thumbnail data associated with at least one of a plurality of icons located in a window, each of said plurality of icons having thumbnail data associated therewith, said method comprising:

sensing the presence of an indicator in a vicinity of an icon having associated thumbnail data representative of content of an associated object, wherein said icon and a plurality of additional icons are located within a viewable interface, each of the additional icons having associated thumbnail data representative of content of an associated object;

rendering a superimposed view of at least a portion of the thumbnail data, the superimposed view rendered in the vicinity of the icon;

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identifying a predetermined maximum number of icons for which thumbnail data will be pre-cached, said predetermined maximum number being independent of the total number of icons located in the window;

comparing the total number of icons located in the window to the pre-determined maximum number of icons;

pre-caching the thumbnail data for a particular number of the plurality of icons located in the window based on said comparing, wherein said particular number is the pre-determined maximum number when said predetermined maximum number is less than or equal to the total number, and wherein said particular number is the total number when the predetermined maximum number is greater than said total number, said thumbnail data representative of content of an associated object; and

displaying the pre-cached thumbnail data associated with one of the plurality of icons when an indicator is hovered substantially over said icon.

Claim 13 (previously presented): The method according to claim 12, wherein the pre-cached thumbnail data is available for substantially instantaneous rendering at the moment the indicator is hovered substantially over one of the plurality of icons.

Claim 14 (original): The method according to claim 13, wherein the thumbnail data is pre-cached in volatile memory.

Claims 15-19 (canceled)

Claim 20 (currently amended): A computer-readable storage medium having instructions stored thereon that direct a computing system to:

sense the presence of an indicator in a vicinity of an icon having associated thumbnail data representative of content of an associated object, wherein said icon and a plurality of

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additional icons are located within a viewable interface, each of the additional icons having associated thumbnail data representative of content of an associated object;

render a superimposed view of at least a portion of the thumbnail data, the superimposed view rendered in the vicinity of the icon;

in response to said sensing, identify a predetermined number of the plurality of additional icons based on the locations within the window of the plurality of additional icons relative to said icon, wherein the predetermined number of icons is greater than one icon and less than the total number of the plurality of additional icons located within the viewable interface; and

in response to said identifying, pre-cache thumbnail data only for the identified additional icons.

Claim 21 (currently amended): A computer-readable storage medium having instructions stored thereon for displaying thumbnail data associated with at least one of a plurality of icons located in a window, each of said plurality of icons having thumbnail data associated therewith, said instructions directing a computing system to:

sensing the presence of an indicator in a vicinity of an icon having associated thumbnail data representative of content of an associated object, wherein said icon and a plurality of additional icons are located within a viewable interface, each of the additional icons having associated thumbnail data representative of content of an associated object;

rendering a superimposed view of at least a portion of the thumbnail data, the superimposed view rendered in the vicinity of the icon;

identify a predetermined maximum number of icons for which thumbnail data will be pre-cached, said predetermined maximum number being independent of the total number of icons located in the window;

compare the total number of icons located in the window to the pre-determined maximum number of icons;

pre-cache the thumbnail data for a particular number of the plurality of icons located in the window based on said comparing, wherein said particular number is the pre-determined maximum number when said predetermined maximum number is less than or equal to than the



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total number, and wherein said particular number is the total number when the predetermined maximum number is greater than said total number, said thumbnail data representative of content of an associated object; and

display the pre-cached thumbnail data associated with one of the plurality of icons when an indicator is hovered substantially over said icon.

Claim 22 (previously presented): The method of claim 1, wherein the icon for which the pre-cached thumbnail data is displayed and the displayed thumbnail data are different.

Claims 23-25 (canceled).

### **Reasons for Indicating Allowable Subject matter**

2. Claims 1, 3, 11, 12, 13, 14, 20, 21 and 22 are allowed.

3. The following is the examiner's statement of reason of allowance: The prior art of record to Mernyk describes a system allows quick glances of " thumbnails " or highly reduced versions of the files. When a folder is opened, every file in the folder is opened as a background operation and thumbnail data, such as a reduced image or text summary of the file, is derived and retained in a cache folder for quick access. When a cursor is touched, without a mouse-click, to a particular icon in the opened folder, the thumbnail for the file identified by the icon is accessed from the cache folder and displayed.

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Datta describes a preloader that uses a cache replacement manager to manage the replacement of components in the cache. While the cache replacement manager may utilize any cache replacement policy, a particularly effective replacement policy utilizes predictive information to make replacement decisions.

Sugimoto describes a maximum number of displayable history information is equal to the number of history information which can be displayed in the auxiliary region, by employing a scrolling method, the Maximum number of displayable history information may be made greater than the number of history information which can be displayed in the auxiliary region.

Mernyk, Datta and Sugimoto fail to disclose or suggest in response to said sensing, identifying a predetermined number of the plurality of additional icons based on the locations within the window of the plurality of additional icons relative to said icon, wherein the predetermined number of icons is greater than one icon and less than the total number of the plurality of additional icons located within the viewable interface; and

in response to said identifying, pre-caching thumbnail data only for the identified additional icons.

pre-caching the thumbnail data for a particular number of the plurality of icons located in the window based on said comparing, wherein said particular number is the pre-determined maximum number when said predetermined maximum number is less than or equal to the total number, and wherein said particular number is the total number when the predetermined maximum number is greater than said total number, said thumbnail data representative of content of an associated object

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3. The examiner, upon searching a variety of databases, respectfully submits that: the previously cited limitations that Mernyk, Datta and Sugimoto fail to disclose or suggest as recited in the independent claims 1, 12, 20 and 21 in combination with the other claims limitations were not disclosed by, would not have been obvious over, nor have been fairly suggested by the prior art made of record.

The dependent claims, being further limiting the independent claims, definite and fully enabled by the specification are also allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phenuel S. Salomon whose telephone number is (571) 270-1699. The examiner can normally be reached on Mon-Fri 7:00 A.M. to 4:00 P.M. (Alternate Friday Off) EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Weilun Lo can be reached on (571) 272-4847. The fax phone number for the organization where this application or proceeding is assigned is 571-273-3800.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

PSS

5/21/2009

/Weilun Lo/

Supervisory Patent Examiner, Art Unit 2179